



Quad Charts PAP 01 through 17 October 12, 2010

Program Management Office





Status of PAP01: Role of IP in the Smart Grid

Updated September 30, 2010.

opuated September 30, 2010.								
A# Current Activities and Ac	complishments	S D# Deliverables						
A6 OpenSG to document Gaps ident		_		uirements for differen		Grid a	pplicatio	n <u>s</u>
A7 Resolving final comments to D2 f	or SSO handoff	D2 Identify Core set of IP protocols						
I# Issues, Concerns & He	elp Needed	S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
16 Assistance resolving final commer	<u> </u>	√		PAP Initiation		2009-		
-					09	09		
		✓		PAP Charter			<u>SGIP</u>	
				Developed		10	5015	
		✓.	TPMO3	Form Initial Team		2009- 11	<u>SGIP</u>	
		7	TPMO4	Develop List of			SGIP	
				Deliverables and		11		
				Tasks with				
				Assignments	2000	2000	0	Da
		✓	TPMO5	SSO Identified	2009- 11			D1, D2
					11	11	IETF	02
		0	TPMO8	Standards Handback	2010-		IETF -	
				to PAPWG from SSO	12		Fred	
							Baker	
		•		SSO Results submitted to GB by	2010- 12			
				PAP after completing	12			
				analysis				
		0	TPM10	PAP Complete	2010-			
					12			
		_	T#	PAP Work Tasks	Due Dec-	Actua		
		✓		evelop a set of equirements for different		Dec- 2009	Open SG-net	D1
				rt Grid applications	2009	2003	30 net	
		0	T2 Ident	tify a core Protocol	Dec	Dec	IETF	D2
			Suite Grid	for IP-based Smart	2009	2010		
		0		lop application specifi			Open	D1
				ocol requirements	2010		SG-net	
		✓		t at <mark>OpenSG</mark> on July 22 evelop action plan	Jul 2010	Jul 2010	PAP	
Status	Schedule			Deliverables		Resou	rces	
January 2010	2	0			0			
February 2010	0	0			0			
March 2010	a	0			<u> </u>			
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April 2010

0

SGiP	NIST Smart Grid Collaboration Sin	te	NST
May 2010	a	Q	3
June 2010	<u> </u>	0	0
July 2010	3	2	Q
August 2010	<u> </u>	0	Q
Sep 2010	Q	2	Q





Status of PAP02: Wireless Communications for the Smart Grid (6.1.5)

Updated October 7, 2010.

A# Current Activities and Accomplishments

- A6 Version 0.6 of Wireless Guidelines out for review, comments due Oct 29, 2010
- A7 Investigation into security parameters to account for into section six evaluations

S	D#	Deliverable
✓	D1	Application Communication Requirements Matrix
		Template
✓	D2	Application Communication Requirements Matrix
✓	D3	Wireless Capability Matrix Template
✓	D4	Wireless Capability Matrix
400		

I# Issues, Concerns & Help Needed 12 Call for input to Task 6 to conduct the evaluation of wireless technologies based on the application requirements and develop the "findings" section of the Guidelines Document

Now looking into the impacts of specific security functions that could be included into analyses of wireless resources as part of section 6

0	D5 Wireless Guidelines							
S	T#	PMO PA Milestone		Due	Actual	Resp	D#	
✓	TPMO1	PAP Initiation		2009- 08	2009- 08	<u>SGIP</u>	All	
✓	TPMO2	PAP Charter Developed		2009- 11	2009- 11	<u>SGIP</u>	All	
✓	TPMO3	Form Initial To	eam	2009- 11	2009- 11	<u>SGIP</u>	All	
✓		Develop List of Deliverables a Tasks with Assignments		2010- 01	2010- 01	<u>SGIP</u>	All	
✓	TPMO5	SSO Identified			12	NIST	D5	
√	TPMO6	Development Requirements PAPWG			2010- 05	Open SG	D1,D2	
✓	TPMO7	Requirements Handoff to SS			2010- 08	SSOs	D3,D4	
0	TPMO8	Standards Handback to PAPWG from		2010- 07		Assigned	D5	
•		SSO Results submitted to by PAP after completing analysis	GB	2010- 09			D5	
	TPM10	PAP Complete	2					
_		Work Tasks		Actua		Resp	D#	
	Wire Evalu Deve	Technical less lation Model lopment	Dec 2009	Dec 2009	NIST 1	Technical	D5	
✓		irements lopment by	May 2010	May 2010	Open	SG Net	D1,D2	





		Open SG Net				
✓	Т3	SSO Wireless Capabilities Matrix	Jan 2010	Aug 2010	IEEE 802, 3GPP,3GPP2, ATIS, TIA	D3,D4
✓		Draft Smart Grid Wireless Guidelines Report	July 2010		PAP 2 and SSO Contributors	D5
•	T5	NIST Reviews and Publishes Wireless Guidelines Report (NISTIR)	Sept 2010		NIST Technical	D5
•		PAP 2 Analyses Report and Submits to <u>SGIP</u> GB	Sept- 2010		PAP 2 SSOs and Contributors	D5

Status	Schedule	Deliverables	Resources
January 2010	3	<u>_</u>	3
February 2010	<u> </u>	<u></u>	<u>0</u>
March 2010	2	3	3
April 2010	<u> </u>	2	<u>0</u>
May 2010	<u> </u>	©	©
June 2010	②	<u> </u>	②
July 2010	2	2	3
Aug 2010	Q	<u></u>	Q
Sept 2010	()	<u></u>	()





Status of PAP03: Develop Common Specification for Price and Product Definition

Updated October 8, 2010.

A16 The OASIS EMIX TC is addressing SGIP guidance and working on their next draft (first revision posted July 12, see D4)

A17 The OASIS EMIX TC is integrating the public review draft of WS-Calendar in its next publication.

A18 The OASIS EMIX TC has published a draft UML model and EAP file September 2010

S	D#	Deliverable
✓	D1	High level scoping document
V	D2	Price use cases and requirements
√	D3	Information model and summary of product characteristics
		of interest to energy consumers
V	D4	Draft price and product definition specification to others
√	D5	Requirements Evaluation and Artifacts
0	D6	Deliverables Evaluation and Artifacts

_	
۱#	Issues, Concerns & Help Needed
	Need focused coordination with DER & PEV PAPs and to include specific tasks in PAP09 and PAP11
	Need to setup team(s) to review deliverables once received back from SSOs.
	Need to see updated artifacts (post comment period) from OASIS (October-ish) and ZigBee (November-ish) for PAPO3WG Review
18	Need to integrate PAP07 requirements. See T13

S	T#		PMO PAP Milestones	Du	e	Act	ual		Resp	D	#
			PAP Initiation	200 07	_	_				_	/iki
✓	TPM	02	·	200 08		200 08	9-	PAF	03WG	TW	/iki
✓	TPM	03		200 08	9-	200 08	9-	PAF	P03WG	TW	/iki
✓	TPM			200 08	_	200 08	9-	PAF	P03WG	TΜ	/iki
✓	TPM	05		200 07	9-	200 07	9-	PAF	03WG	TW	/iki
✓	TPM		•	201 07		201 07	0-	PAF	P03WG	D5	
✓	TPM		•	201 07	0-	201 07	0-	PAF	03WG	D5	
0	TPM			201 12	0-			OA: Zigl			
•	TPM			201 01	1-			PAF	05WG	D6	
0	TPM:	10	P	201 04	1-			SGI	PGB	N/	Α
S	T#		PAP Work Tasks		Dι	ıe	Act	ual	Resp		D#
√			velop high level scoping cument	20 11)09 L)-	200 11)9-	NAESB		D1
✓	T2 Develop price and product definition use cases & requirements					_	010- NAESB 04			D2	
✓			eet and present status or liverables at Grid-Interop)09 L)-	200 11)9-	PAP03V	VG	D1
✓			n to import and use aterial from PAP04	20 12)09 2)-	200 12)9-	NAESB		D2





✓	T5	Plan to import and use material from PAP04	2009- 12	2009- 12	OASIS	D3
✓	T6	· ·		2010- 05	<u>ZigBee</u>	D3
✓	T7	1 ,	2010- 02	2010- 02	OASIS	D3
✓			2010- 02	2010- 04	ZigBee	D3
✓	Т9	p p	2010- 04	2010- 05	OASIS	D4
✓	T10			2010- 04	ZigBee	D4
✓	T11	, , , , , , , , , , , , , , , , , , , ,	2010- 06	2010- 06	PAP03WG	D5
TBD		Deliverables evaluation; define scope/schedule/deliverables [subsumed by TPM08 and TPM09 above]	•	N/A	PAP03WG	D6
()	T13	Deliver requirements from PAP07 to OASIS Energy Market Information Exchange TC	October 2010		PAP07	

Status	Schedule	Deliverables	Resources
January 2010	Q	۵	۵
February 2010	Q	<u> </u>	٥
March 2010	Q	<u></u>	۵
April 2010	<u> </u>	<u> </u>	٥
May 2010	0	<u> </u>	©
June 2010	0	۵	<u> </u>
July 2010	0	a	<u> </u>
August 2010	Q	©	٥
September 2010	Q	<u>a</u>	۵
October 2010	Q	Q	Q





Status of PAP04: Develop Common Schedule Communication Mechanism for Energy Transactions

Updated September 26, 2010.

A#	Current Activities and Accomplishments
A14	xCal submitted to IETF to finish Standards Track
	process July 2010
A17	The WS-Calendar TC is addressing SGIP guidance and
	working on their next draft.
A18	PAP04 Requirements delivered in July 2010 to WS-
	Calendar
A19	WS-Calendar planning Formal Public Review in
	September/October 2010
A20	Consumption of PAP04 work in NAESB Energy Usage
	Public Review Draft, August 2010
A21	WS-Calendar out for formal 60 day public review
	September 24, 2010 through November 23, 2010

S	D#	Deliverable
\checkmark	D1	Update pre-existing IETF standards for extensibility
✓	D2	Standard XML Serialization for Bi-directional
		<u>Translation</u>
✓	D3	Use cases and requirements to test the standard
\checkmark	D4	Associated semantics for schedule performance
		related to WS-Calendar standard
1	D5	Create essential WS APIs for Calendars and
		<u>Schedules</u>
0	D6	Develop improved WS Calendar: Allign APIs and
		semantics across SDOs

۱#	Issues, Concerns & Help Needed							
12	Other PAPs need to clarify their consumption of PAP04							
	output and coordinate as necessary.							
15	ZigBee has not clearly addressed PAP04 in its work to							
	date (See PAP03 tables)							
16	Need to integrate PAP07 requirements in Public Review							
	Draft							

S	T	#	PMO PAP Milestor	es	C	ue	Αc	tual	Resp	D#
✓	TPN	101	PAP Initiation		20 07		20 07		<u>SGIP</u>	
✓	TPN	102	PAP Charter Develop	ed	20 08)09- 3	20 08		<u>SGIP</u>	
✓	TPN	103	Form Initial Team		20 08		20 08	09-	<u>SGIP</u>	
✓	TPN		Develop List of Deliverables and Tas with Assignments	Deliverables and Tasks)09- 3	20 08		<u>SGIP</u>	
✓	TPN			20 07		20 07	09-	<u>SGIP</u>		
√	TPMO6		PMO6 Development of Requirements By PAPWG		20 12)09- !	20 12		NAESB	<u>D3</u>
✓	TPN		Requirements Hando to SSO	off	20 12		20 12	09-	NAESB	<u>D3</u>
✓	TPN	108	Standards Handback PAPWG from SSO		20 40)10-)	20 09	_	OASIS	
0	TPN	TPMO9 SSO Results submitted to GB by PAP after completing analysis		20 40)10-)			<u>SGIP</u>		
0	TPN	110	PAP Complete		20 02)11- !			<u>SGIP</u>	
S	T#		PAP Work Tasks	Du	e	Actı	ıal	R	esp	D#
✓		forr	date IETF iCalendar mat to allow ensibility	201 01		2009 09	9-	CalC	onnect	D1
✓	T2		ndard XML alization of	201 01		2009 11	9-	CalC	<u>onnect</u>	D2





		extensible iCalendar out for public review				
✓	ТЗ	Standard APIs for Calendar-to-Calendar communications for inclusion in WS- Calendar	2010- 08	2010- 09	<u>CalConnect</u>	D4
		•		2010- 05	<u>CalConnect</u>	D1
✓	T5	Develop Smart Grid use cases and requirements for for use in WS- Calendar		2010- 04	NAESB	D3
✓	Т6	Create Committee to develop service- oriented schedule profiles based on IETF xCalendar and APIs (WS-Calendar)		2010- 01	OASIS	D5
✓	T7			2010- 05	OASIS	D5
	Т8			2010- 05	OASIS	D6
✓	Т9	Development of Requirements by PAPWG [See NOTE]	2010- 07	2010- 07	PAP04WG	<u>D3</u>
0	T10	Standards Handback to PAPWG from SSO	2010- 4Q		OASIS	<u>D6</u>

NOTE: Original $\underline{D3}$ completed; T9 addresses high level requirements from the NIST Framework and Roadmap.

Status	Schedule	Deliverables	Resources
January 2010	<u> </u>	۵	۵
February 2010	0	<u> </u>	٥
March 2010	Q	<u></u>	٥
April 2010	0	۵	<u>©</u>
May 2010	0	<u>a</u>	<u>©</u>
June 2010	0	۵	<u> </u>
July 2010	Q	<u> </u>	۵
August 2010	0	<u> </u>	0
September 2010	0	<u>a</u>	<u> </u>
October 2010	Q	Q	\one{\omega}





Status of PAP05

Updated October 11, 2010.

Α	# Current Activities and Accomplishments	S	D#	Deliverables
A	AEIC AMTI group preparing a gap report alongside	√	D1	Utility requirements mapping
	the guidelines for delivery to PAP05WG and other		D2	Expression of AEIC v2.0 Guidelines in terms of
	groups (first draft on 08/06)			additional device class(es)
A.	Requirements circulated for approval per PMO	1	D3	Revision of AEIC v1.0 Guidelines
	Consensus Process	4	D4	Data type profiles for specific Use Case(s)
A	Formed Voting Group on 8/16/2010 to approve	1	D5	White Paper/Presentation on ANSI metering protocol
	requirements, prepared for AEIC deliverable			<u>standards</u>
	evaluation	V	D6	New capabilities as developed during PAP05 work
A.	AEIC AMTI group delivered guidelines document for	✓	D7	Publicly available training materials
	public review on 8/18/2010; public review ended	_	D8	Design Document
	9/19/2010	0	D9	Analysis
A.	O Voting Group approved requirements 8/19/2010;	0	D10	Use Cases and Requirements
	comments resolved.	1	D11	Gap Report
A:	11 PAP05WG evaluated the AEIC guidelines against the			- Cap 110 po 11
	requirements, a few points left to resolve for the			
	final PAPWG disposition.			

ŀ	Ħ	Issues, Concerns & Help Needed
I	2	Team will need broader participation for review of
		AEIC deliverable-disposition will be balloted.
I	3	The delivery of the final AEIC document in August
		instead of 5/31 negatively impacted the schedule.
ŀ	4	There may still be resource constraints until the PAP
		has been completed-appears mitigated with voting
		group/ballots.

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
✓	TPMO1	PAP Initiation	2009- 08	2009- 08	PAP05WG	TWiki
✓	_	PAP Charter Developed	2009- 08	2009- 08	PAP05WG	TWiki
✓	ТРМО3	Form Initial Team	2009- 08	2009- 08	PAP05WG	TWiki
✓		Develop List of Deliverables and Tasks with Assignments	2009- 08	2009- 08	PAP05WG	TWiki
✓	TPMO5	SSO Identified	2009- 08	2009- 08	PAP05WG	TWiki
✓		Development of Requirements By PAPWG	2009- 08	2009- 08	PAP05WG	TWiki
✓	ТРМО7	Requirements Handoff to SSO	2009- 08	2009- 08	PAP05WG	TWiki
✓	TPMO8	Standards Handback to PAPWG from SSO	2010- 08	2010- 08	AEIC	1,2,6,8
0		SSO Results submitted to GB by PAPWG after completing	2010- 10		PAP05WG	9





			analysis	;								
0	TPN	110	PAP Cor	mplete		201 10	0-		SG	IPGB	N/A	
S	T#	PA	P Work	Tasks	Du	ie		Actua		Resp	C) #
✓	T1	req exp AEI	p utility uiremer ressed v C Guidel O to Dev sse	via lines	05/2	010	08	/18/20)10	AEIC AMTI	D	1
✓	T2	Gui terr mo	ress AEI delines on ms of on re additivice Clas	v2.0 in e or ional	05/2	010	08	/18/20)10	AEIC AMTI	D	2
✓	T3		nplete ro NEIC Guio O			009	12,	/11/20	009	AEIC AMTI	D	3
✓	Т4	type from Dev con and data	nimize the intions in the interest in the inte	n data ported End al-time ition rise	01/2	010	03	/22/20	010	AEIC AMTI	D	4
✓		Soc exis add with C12 C12	ialize the stence of litional Thin ANSI 2.21-200 2.22-200 /PPT rep	e f Tables 6 and 8 via	05/2	010	05	/25/20	010	Team Membe	ers D	5
✓	Т6	defi reco for Cor Tab gen	vide initions ommend Function itrol Lim ile value ieral figuratio	dtaions n iting s and	·	010	08,	/18/20)10	AEIC AMTI	D	6
✓	Т7	edu pac ANS 200	velop Ication kage arc SI C12.18 06, C12.1	8- 19-	04/2	010	05	/17/20	010	Team Membe	Prs D	7





		2006 and C12.22- 2008.				
✓		Minimize variation and maximize interoperability of Application Services and behaviors within ANSI C12.18- 2006, ANSI C12.19-2008, ANSI C12.21-2006 and ANSI C12.22-		08/18/2010	AEIC AMTI	D8
0	T9	PAP05WG to analyze D3; initial analysis on 9/13/2010	10/2010		PAP05WG	D9
0	T10	Report on Framework-based Use Cases and Requirements.	10/2010		PAP05WG	D10
✓	T11	Create and deliver Gap Report.	09/2010	08/06/2010	AEIC AMTI	D11

Status	Schedule	Deliverables	Resources
January 2010	<u> </u>	<u> </u>	2
February 2010	<u>Q</u>	<u> </u>	٥
March 2010	@	3	۵
April 2010	Q	<u> </u>	٥
May 2010	Q	Q	Q
June 2010	0	O	<u>©</u>
July 2010	3	3	۵
August 2010	<u>Q</u>	<u>©</u>	٥
September 2010	0	a	©
October 2010	0	<u> </u>	2





Status of PAP06

Updated October 11, 2010.

A#	Current Activities and Accomplishments
A1	Sub-group has begun discussion of Use Cases and
	Requirements
Α5	Requirements circulated per PMO Consensus Process
	for approval
A6	Formed Voting Group on 8/16/2010 to ballot
	requirements, prepared for future deliverable
	evaluations

A7 Voting Group approved requirements on 8/19/2010; comments about requirements discussed during 9/13 meeting.

S	D#	Deliverables
0	D1	Key Use Cases
0	D2	<u>Requirements</u>
9	D3	UML meta model of ANSI C12.19-2008
0	D4	UML/TDL Binding
9	D5	UML model refinement based on SGAC input
0	D6	Gap/Overlap Report C12.19/61968-9

I#	Issues, Concerns & Help Needed
11	Need to explore explicit recruitment of new
	resources, including explicit experts for the different
	standards
12	Need to coordinate with PAPO5WG, including explicit
	coordination requirements (review of PAP05WG
	Deliverable 3)
13	Schedule slippage of PAP05 tasks impacting PAP06 tasks
	(same resources involved)
14	PAP6WG would function more efficiently if equally
	competent but separate resources from PAP05WG could
	be found

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
✓	TPMO1	PAP Initiation	2009- 08	2009- 08	PAP06WG	TWiki
		PAP Charter Developed	2010- 01	2010- 01	PAP06WG	TWiki
		Form Initial Team	2009- 08	2009- 08	PAP06WG	TWiki
✓		Develop List of Deliverables and Tasks with Assignments	2010- 01	2010- 01	PAP06WG	TWiki
✓	TPMO5	SSO Identified	2010- 04	2010- 04	PAP06WG	TWiki
0	ТРМО6	Development of Requirements By PAPWG	2010- 10		P6WG1	TWiki
•	TPMO7	Requirements Handoff to SSO	2010- 11		PAP06WG	
0	ТРМО8	Standards Handback to PAPWG from SSO	2010- 12			
0	трмо9	SSO Results submitted to GB by PAPWG after completing analysis	2011- 01		PAP06WG	
0	TPM10	PAP Complete	2011- 01		SGIPGB	
	S T#	PAP Work Tas	ks	Due A	Actual Res	p D#
0	T1	Identify key use ca (should occur befo		2010- 10	P6W	<mark>G1</mark> D1





		mappings are performed)			
<u>O</u>	T2	Requirements development	2010- 10	P6WG1	D2
	ТЗ	Construct a meta model of ANSI C12.19-2008 that illustrates the class hierarch represented by Decades, Tables and components of Tables including core data types. Build the model in UML.	2010- 11	TBD	D3
•	Т4	Using a TDL machine readable representation, implement software to import the complete ANSI C12.19 table definitions into the UML model. Use appropriate inheritance to bind elements to the class herarchy assembled in T3.	2010-12	TBD	D4
Date not defined	T5	Refine the UML model to correspond to the abstract semantic model being developed by the SGIP SGAC (dependency!)	TBD	TBD	D5
Date not defined	Т6	Produce a side-by-side comparison of the ANSI C12.19 UML model and the IEC 61968-9 UML model to illustrate gaps and overlaps; create Gap/Overlap report	TBD	TBD	D6

Status	Schedule	Deliverables	Resources
March 2010	0	<u>a</u>	<u> </u>
April 2010	0	<u> </u>	٥
May 2010	0	<u></u>	۵
June 2010	<u> </u>	<u> </u>	Ö
July 2010	@	a	©
August 2010	Q	>	2
September 2010	(a)	<u>@</u>	O
October 2010	<u> </u>	۵	&









Status of PAP07: Energy Storage Interconnection Guidelines

Updated October 11, 2010

A Current Activities and Accomplishments

- A1 **(May 2010)** The balloting for IEEE 1547.6 is completed. The balloting for IEEE 1547.4 is underway.
- A2 (June 2010) IEC 61850 information models were developed for some of the key Use Cases, and have been submitted to the IEC TC57 WG17. These additions to IEC 61850-7-420 were reviewed by WG17 during the September 27-29 meeting in Montreal (see A6).
- A3 (August 2010) The first meeting of the IEEE 1547.8 was held in August, with multiple sub-groups formed to work on specific issues.
- A4 (August 2010) Mapping of 61850 DER models to SEP had multiple very successful meetings. Preliminary mappings have been accomplished, and consistency checking with other UML modeling of 61850 is underway. See A7 for updates on this process.
- A5 (September 2010) Face-2-face meeting at the SGIP St. Louis meeting discussed what supporting activities should be done while PAP 7 goes into "monitoring and support" mode. The results are that PAP 7 will clean up the Scoping Document and turning it into a White Paper, developing the testing and certification requirements, and following up on ES-DER projects such as the IRC efforts and EPRI's Inverter Specifications. Cyber security issues were left to be handled in some other forum.
- A6 (October 2010) Met with IEC TC57 WG17 to discuss PAP 7 submittals. These were eagerly accepted for review, with the European vendors especially anxious to get a document they could use for production. In order to get such a document rapidly, it was agreed that a (informative) Technical Report (IEC 61850-90-7) would be developed by the end of November, for approval by National Committees within a couple of months by March or April 2011. The vendors felt they could use this document, even though it was only informative (not normative) and details might change. In parallel, the longer, consensus-driven process for a normative standard (IEC 61850-7-420, edition 2) would be commenced, with the plan for standardizatiom by 2012.
- A7 (October 2010) Mapping to both DNP3 and SEPv2 are in process. The DNP3 mapping is almost complete. The SEP effort has developed the basic 61850 models, but still needs to determine how to handle arrays and

S D# Deliverable

- D1 Task 0 Activities: Development of Scoping Study Document (MS Word version)
- ✓ D2 Task 1a Use Cases: List of ES-DER Use Cases (organized by type) (MS Word version)
- ☐ D3 Task 4 Use Cases Descriptions for Key ES-DER Use Cases (MS Word version) 1st draft complete
- ✓ D4 Completing IEEE 1547.4 & .6 per IEEE rules See IEEE 1547 Web Page
- ✓ D5 Initiated PAR for IEEE 1547.8 per IEEE rules See IEEE 1547 Web Page
- ✓ D6 Information Exchange requirements for key ES-DER Use Cases submitted to IEC TC57 17





schedules. WS-calendar needs to be reviewed to determine if it can handle at least the basic scheduling.

A8 (October 2010) Cross-PAP and cross-modeling issues still need discussions. One approach has been discussed between 61850 and CIM, which is for CIM to model the primary 61850 Common Data Classes (CDCs) as complex datatypes in the CIM. This would simplify the retrieval of field data into the CIM.

Issues, Concerns & Help Needed

- I1 (May 2010) See Task 4f: Need to develop an IEC 61850 UML model, expressed in Enterprise Architect, so that harmonization with CIM can be more precisely described and so that mappings to protocols like SEP 2.0 can use this same UML model for that mapping. This has been accomplished -October 2010.
- I2 (October 2010) With IEC 61850 now (almost) available as a UML model in Enterprise Architect, harmonization with CIM should include the development in CIM of complex datatypes which map directly to 61850 Common Data Classes. This would greatly simplify the interface between 61850 and CIM. Possibly the SGIP Architecture Committee (SGAC) could review this proposal and determine if and how they might progress the concept.

S	T	#	PMO PAP Mi	lesto	nes	Due	Actua	l Resp	D#
			PAP Initiation			2009- 08	08		
✓	TPM	102	PAP Charter D	evelo	ped		2009- 08	<u>SGIP</u>	
✓	TPI∿	PMO3 Form Initial Te		am		2009- 08	2009- 08	<u>SGIP</u>	
✓	TPM		Develop List o Deliverables a with Assignme	nd Ta	sks		2009- 08	<u>SGIP</u>	
✓	TPI∿	105	SSO Identified			2009- 08	2009- 08	PAP 7	
✓	TPM	106	Development Requirements PAPWG				2010- 04	PAP 7	
√	TPMO7 Requireme to SSO					2010- 06	2010- 06		D3 & D5
	TPM	108	Standards Har PAPWG from S		k to	2011- 06		IEEE and IEC	
	TPM	109	SSO Results su to GB by PAP a completing an	after		2011- 08		PAP 7	
	TPM	110	PAP Complete			2011- 11		<u>SGIP</u>	
S	T#	РА	P Work Tasks	Due		Actua		Resp	D#
✓	TO		ping cument Draft	Nov- 2009	Nov	2009		PAP 7	D1
✓		witl	ect Use Cases n Brief ratives	Feb-	Use	-Feb lis Cases pleted	was i	PAP 7 member	D2 s
✓	T2	154 Gui Ope Inte	nplete IEEE 7.4 (Draft de for Design, eration, and egration of cributed	Aug- 2010	curr ballo IEEE ballo	7.4 is ently in ot, as p 1547 oting edule, a	n :	EEE 1547	D4





		Resource Island Systems with Electric Power System) & .6 (Draft Recommended Practice For Interconnecting Distributed Resources With Electric Power Systems Distribution Secondary Networks)		due for final release by July/August 2010. 1547.6 is in pre-ballot and is expected to be released by December 2010		
		Initiate IEEE 1547.8 to address interconnection issues of storage (title not known yet)	2010		IEEE 1547	D5
✓	T4	Prioritize and develop details for key ES-DER Use Cases	Mar- 2010	April 5 2010	NIST & PAP 7	D3
		Provide key ES- DER Use Cases to PAPs 3, 4, and 9, and discuss whether the ES- DER schedules and pricing signal requirements are covered adequately			PAP 7, PAPs 3, 4, 9	D3
V	T4b	Provide key ES- DER Use Cases to PAP 10 and discuss whether ES-DER issues are adequately covered under Energy Usage	2010	April 2010: Use Cases were provided - PAP 10 has deferred ES- DER considerations	PAP 7, PAP 10	D3
✓	T4c	Provide key ES- DER Use Cases to PAP 11 and discuss if additional PEV	2010		PAP 7, PAP 11	D3





		Use Cases need to be added to ES-DER Use Cases		taking place		
	T4d	Provide key ES- DER Use Cases to PAP 16 and discuss if any addition actions need to be taken by PAP 16 for handling Wind plus ES-DER	2010	April 2010: Use Cases were provided - no specific issues found at this time - the IEC TC57 WG17 may pick up later	PAP 7, PAP 16	D3
		Information Exchange requirements for key ES-DER Use Cases	June 2010	June 2010	PAP 7	D3
	T4f	Hand off Information Exchange requirements for key ES-DER Use Cases to IEC TC57 WGs 14 & 17	2010	June 2010: Object modeling requirements handed off to IEC TC57 WG17	PAP 7	D6
	T5	SDOs to start development of safety codes and test methods to ensure safe and reliable implementation of Task 3 - specifically UL 1741	2010	August 2010: UL has officially initiated the process to revise UL 1741	UL,	D5
2	T6a	Review and approve P1547.8 results as meeting PAP 7 requirements	June 2011		PAP 7	
0	T6b	Review and approve IEC 61850 results as meeting PAP 7 requirements	Dec 2011		PAP 7	
0	T6c	Review and approve UL 1741 results as	June 2011		PAP 7	





meeting PAP 7 requirements

Status	Schedule	Deliverables	Resources
June 2010	3	0	a
July 2010	<u> </u>	0	0
Aug 2010	Q	Q	3
Sept 2010	©	2	<u>0</u>
Oct 2010	0	0	3





Status of PAP08: CIM/61850 for Distribution Grid Management

Updated October 12, 2010

A Current Activities and Accomplishments A7 MultiSpeak(R) Version 4.1 delivered A8 CIMTool specification delivered A9 Next steps identified for task T9 A10 First pass of the messages identified in the Use Case is completed. The sequence diagram is being rewritten to simplify the model.

- A11 Resources have been engaged to develop deliverable
- A12 Resources have been engaged to develop deliverabls D6 and D7.

S	D#	Deliverable

- ✓ D1 UML Model of MultiSpeak
- D2 <u>UML Tools for CIM (deliverable is internal to IEC</u> TC57 WG14)
- D3 Interoperability Test of CIM Wires Model (completed Nov 2009 refer to IEC)
- ✓ D4 Distribution Grid ManagementSG UC nm3.doc: Updated version of the DGM Use cases ADA DOMA/FLIR/ VVWO Use Cases with requirements for Distribution Grid Management
- D5 ADA Functions Sequence Diagrams.pdf:
 ADA_Functions_-_Sequence_Diagrams.pdf
 Use Cases with appropriate details for IEC TC57 WGs
 (61850 and CIM)
- D6 IEC 61968, Parts 3 & 5, CIM updated standards to meet the PAP 8 Use Case application-to-application requirements
- D7 IEC 61850-7-4xx standards to meet the PAP 8 Use Case interactions with field equipment

Ľ	issues, concerns & rielp weeded
13	IEC TC57 WG14 needs additional experts and additional
	time from existing experts to update the CIM (IEC 61968
	Parts 3 & 5, as well as other parts) to meet the
	requirements described in the PAP 8 Use Cases (See Help
	Wanted Page)

Issues Concerns & Heln Needed

-								
	S	T#	PMO PAP Mileston	es	Due	Actual	Resp	D#
	✓	TPMO1	PAP Initiation			2009- 09	<u>SGIP</u>	
	✓	TPMO2	PAP Charter Develope			2009- 10	<u>SGIP</u>	
	✓	TPMO3	Form Initial Team			2009- 11	<u>SGIP</u>	
	✓		Develop List of Deliverables and Task with Assignments		2010- 06	2010- 06	<u>SGIP</u>	
	✓	TPMO5	SSO Identified		2009- 11	2009- 11	<u>SGIP</u>	
	@	TPMO6	Development of Requirements By PAP		2010- 09		<u>SGIP</u>	
	©	TPMO7	Requirements Handot SSO		2010- 09		<u>SGIP</u>	
	0	TPMO8	Standards Handback t PAPWG from SSO		2011- 07		IEC	
	0	ТРМО9	SSO Results submitted GB by PAP after completing analysis		2011- 08		<u>SGIP</u>	
	0	TPM10	PAP Complete		2011- 11		<u>SGIP</u>	
	S	T#	PAP Work Tasks	Due	Actu	al Re	sp	D#





✓	T1	UML model for <u>MultiSpeak</u>	Jun- 2010	Jun- 2010	NRECA	D1
✓	T2	Team for UML tools for CIM	Jun- 2010	Jun- 2010	IEC TC57 WG14	D2
✓	T3	Team for interoperability testing	Nov- 2009	Nov- 2009	IEC TC57 WG14	D3
✓	T4	Web conference CIM Modeling team	Nov- 2009	Nov- 2009	IEC TC57 WG14	D4
✓	T5	Create SG use case team	_	Nov- 2009	Mini- T&D team	D5
√	Т6	Use Case master list	Jan- 2010	Jan- 2010	Mini- T&D team	D5
✓	T7	Key Use Cases prioritized and refined	Feb- 2010	Feb- 2010	UCI	D5
√		Review Use Cases and complete Sequence Diagrams of those Use Cases	Apr- 2010	Apr- 2010	NIST, PAP 8	D6
0	Т9	Provide completed Use Cases to the IEC TC57 WGs 14 & 17	Sept- 2010		NIST, PAP 8	D6, D7
0	T10	Track progress on developing CIM and 61850 models from the Use Cases	Dec- 2011?		IEC TC57 WG14 & 17	
0	T11	Modify UML tool for use with Multispeak	Oct- 2010		EPRI	D2

Status	Schedule	Deliverables	Resources
April 2010	<u>a</u>	2	3
May 2010	a	2	©
June 2010	<u>a</u>	<u>a</u>	<u>0</u>
July 2010	a	<u>a</u>	<u>\(\)</u>
August-2010	a	a	()
September 2010	8	2	<u> </u>





Status of PAP09: Standard DR and DER Signals

Updated September 26, 2010.

A #	Current Activities and Accomplishments
A11	The Working Group held a face-to-face
	review of OASIS Energy Interoperation
	jointly with UCAlug on July 20; guidance has
	been delivered to the OASIS TC
A12	Members of the ISO/RTO Council have

- A12 Members of the ISO/RTO Council have joined the OASIS Technical Committee and have contributed additional requirements Jully 2010
- A13 Leadership meetings are taking place among the UCAlug OpenADR Task Force and OASIS Energy Interoperation TC
- A14 Southern California Edison has joined the OASIS Energy Interoperation TC
- A15 The OASIS Energy Interoperation TC has planned Formal Public Review autumn 2010

S	D#	Deliverable				
0	D1	Standard Vocabulary for DR and DER				
0	D2	Direct Load Management Communication				
0	D3	Collaborative Load Management Communication				
0	D4	Grid safety Signals				
	D5	DER support (deferred)				
2	D6	Other signals and/or an extensibility mechanism				

I#	Issues, Concerns & Help Needed
12	Comments on PAP-15 call for a standard DR
	interface for appliances; this appears to be
	more communication related
13	Completion is dependent upon completion of
	EMIX (PAP03)
14	Completion is dependent upon completion of
	WS-Calendar (PAP04)
15	Need to integrate PAP07 Requirements. See
	T14

S	T	#	PMO PAP Milest	ones		Due	e Actual	Resp	D#
✓	TΡN	101			2009		<u>SGIP</u>		
						07	07		
✓	TPN	102	PAP Charter Developed			2009		<u>SGIP</u>	
						80	08		
✓	TPN	103	Form Initial Team			2009	- 2009-	<u>SGIP</u>	
						08	08		
✓	TPN		Develop List of Delivera			2009	- 2009-	<u>SGIP</u>	
			Tasks with Assignments			80	08		
✓	TPN	105	SSO Identified			2009	- 2009-		
						07	07		
✓	TPN		Development of Require	ements I	Зу	2009			
			PAPWG (see NOTE)		12	12			
✓	TPN	107	Requirements Handoff	to SSO		2009	- 2010-		
						12	04		
0	TPN		Standards Handback to	PAPWG		2010	-		
			from SSO			12			
0	TPN	109	SSO Results submitted t	•		2011	-		
			PAP after completing ar	nalysis		01			
0	TPN	110	PAP Complete			2011	-		
						04			
S	T#		PAP Work Tasks	Due	Ac	tual	Resp	D	#
✓	T1	Coll	ect, Analyze, and	2009-	201	0-04	NAESB	D	1
		Con	solidate Use Cases and	10					
		deli	ver requirements (inc						
		DEF	,						
✓	T2	Dire	ect Load Management:	2010-	201	0-04	Zigbee	D	2





		(Residential Applications) Message Semantics Work DR, DER	04			
✓	Т3	Collaborative Load Management: (C+I Applications) Message Semantics, DR, DER	2010- 04	2010-04	OASIS	D3,D6
*	T4	Coordinate and merge Direct and Collaborative Load Management development tracks.	2010- 04	deferred	NAESB	D1
©	T5	Submit collaborative load management task outputs to IEC TC57 when completed	no date		OASIS	D3
0	Т6	Submit direct load management outputs to IEC TC57 when completed	no date		Zigbee	D2
✓	Т7	Downstream user requirements/engagement	2009- 10	2009-09	<u>LonMark</u> BACnet	D3
✓	T8	Downstream user requirements/engagement		2009-10	Zigbee	D2
✓	Т9	Additional message requirements for Distribution (none required)	2009- 10	2009-10	MultiSpeak	D1
*	T10	Resale and process for safety and interconnection (deferred)	2009- 10	deferred	NAESB	D5,D4
✓	T11	Vocabulary for DR, DER actor names	2009- 09		NAESB	D1
		Development of Requirements by PAPWG [See NOTE]	2010- 07		PAP09WG	<u>D1</u>
0	T13	Standards Handback to PAPWG from SSO	2010- 4Q		OASIS	<u>D6</u>
0	T14	Deliver requirements from PAP07 to OASIS Energy Interoperation TC	October 2010		PAP07	

NOTES: Original D1 completed 2009-12 and delivered 2010-04; T12 addresses high level requirements from the NIST Framework and Roadmap. T4 Was deferred by the WG; T10 was examined and no work was determined to be needed at this time. T5 and T6 will be completed when the other work is completed.

Status	Schedule	Deliverables	Resources
January 2010	Q	\omega	<u> </u>

SGIP NIST Smart Grid Collaboration Site NIST February 2010 March 2010 April 2010 May 2010 June 2010 July 2010 August 2010 September 2010 October 2010





Status of PAP10: Standard Energy Usage Information:

Updated October 6, 2010.

A# Current Activities and Accomplishments

- A1 NAESB initiates ESPI standard to orchestrate exchange of Energy Usage Information via Third Party61968
 Access. First F2F meeting held October 6,7 in Houston at Reliant Energy
- A2 NAESB formal draft comments resolved and proposed "late comments" draft assembled

S D# Deliverable

- Use cases and requirements for standard energy usage information exchange
- ✓ D2 Short term plans for near-term customer access to usage data based upon todays installed meters
- D3 NAESB PAP10 Energy Usage Information Standard: An Information model to satisfy present and future needs for exchange of energy usage information
- D4 Implement a plan to expedite harmonized standards development and adoption: OASIS, IEC61970/61968, IEC61850, ANSI C12.19/22, PAP 17/ASHRAE SPC201, and ZigBee Smart Energy Profile (SEP) 2.0.

I# Issues, Concerns & Help Needed Many CIM issues resolved but several still outstanding and not resolvable in first release of PAP10 standard. Resulting differences will result in non-integratable

extensions to the IEC 61968 part 9

I2 Need to address deliverable 4 -- migration of the NAESB standard to implementing SDOs. Plan to begin construction of requirements document to address this subject

S	T#	PMO PAP	Due	Actual	Resp	D#
		Milestones				
✓	TPMO1	PAP Initiation	2009-	2009-	<u>SGIP</u>	
			07	07		
1	TPMO2	PAP Charter	2009-	2009-	<u>SGIP</u>	
		Developed	07	08		
1	трмо3	Form Initial Team	2009-	2009-	<u>SGIP</u>	
			07	08		
1	TPMO4	Develop List of	2009-	2009-	SGIP	
		Deliverables and	07	08		
		Tasks with				
		Assignments				
7	TPMO5	SSO Identified	2010-	2010-	PAP10WG	
			06	06	2011 0	
7	TPMO6	Development of		2010-	PAP10WG	D1
		Requirements By	06	06	7.11 10110	
		PAPWG				
7	TPMO7	Requirements	2010-	2010-	PAP10WG	
	111107	Handoff to SSO	06	06	7.11 10000	
	TDMOS	Standards Handback		00	SSO	
	T IVIO	to PAPWG from SSO	12		330	
	TDMOQ	SSO Results	12		PAP10WG	
	TPIVIOS	submitted to GB by			PAPIUWG	
		PAP after				
		completing analysis				
	TDN 410				PAP10WG	
		PAP Complete				
_		PAP Work Tasks		Actual	Resp	D#
✓		•	2009-		JCAlug	D1
		ZigBee, and OASIS	08	01		
		ormal involvement.				
	Plan	additional				





Ī			ongagoment				
		_	engagement			-	
	✓		Create preliminary Requirements and Use Cases for early deployment	2009- 10	2009- 11	UCAlug	D2
	√		Reach out to additional stakeholders especially commercial, industrial, and residential	2010- 01		EIS Alliance	D1
	✓		Gather requirements and use cases for intra- premise scenarios that require inter-domain data exchange	2010- 01	2010- 01	EIS Alliance	D1
	✓		Survey current practice. Gather existing usage communications between energy suppliers and consumers, including providers of intermediary services	2010- 07	2010- 07	NAESB	D1
	✓		Consolidate use cases and requirements into a Basic Energy Usage Information straw model to contribute to NAESB standards process	2010- 06	2010- 06	PAP10 individuals	D1
	✓		Produce first delivery information model for today's meters and infrastructure (from utility information systems)	2010- 02	2010- 04	UCAlug	D2
	0		Expedite harmonized standards development and adoption within the associated standards bodies	2011- 01		NAESB	D4
	0		Produce Energy Usage information model specification	2010- 12		NAESB	D3
			Deliverables		Doo	ources	

Status	Schedule	Deliverables	Resources
April 2010	Q	<u></u>	۵
May 2010	<u>©</u>	<u> </u>	Ö
June 2010	0	<u>\alpha\</u>	<u> </u>
July 2010	0	0	<u> </u>
August 2010	Q	<u> </u>	۵







Status of PAP11: Interoperability Standards to Support Plug-in Electric Vehicles (6.2.4)*

Updated October 12, 2010.

А#	Current Activities and Accomplishments
А3	Provided extensive input to Smart Energy Profile 2.0 SRS 0.9 requirements for PEV messages and information exhange sets.
A4	Joint Collaboration with IEC TC57, WG 14, 17, 19, TC69 (PEV) July 2010
A5	PEV Information Model developed in CIM as extension defined by SEP 2.0 SRS 0.9, Harmonization between IEC 61968 (CIM) and IEC 61850 as proposed by EPRI study
A6	Set up Regulatory Affairs Task Force in July 2010 with 6 initial states participating
A7	Face-to-Face meeting in July 2010 in conjunction with OpenSG User group meetings. Next meeting scheduled in October 2010.
A9	Face-to-Face meetings with EPRI Infrastructure Working Council. Met jointly in September 1-2, 2010, next meeting December, 2010 in Detroit, MI.
A10	SAE J1772-TM PEV Connector Standard Released: Electric Vehicle and Plug in Hybrid Electric Vehicle Conductive Charge Coupler, 2010-01-15
A11	SAE J2836-1 PEV Use Cases Standard Released: Use Cases for Communication Between Plug-in Vehicles and the Utility Grid, 2010-04-08
A12	SAE J2847-1 PEV Communications Requirements Released: Communication between Plug-in Vehicles and the Utility Grid, 2010-06-16
A13	SGIP Face-to-Face Meeting with PAP 11 in St. Louis, MO
A14	SEP 2.0 Application Specification Section 11, PEV messages and information sets, in final phase of development

S	D#	Deliverable
✓	D1	PEV Use Cases
✓	D2	Memo SAE and Smart Energy
✓	D3	Map 61968 and 61850
✓	D4	Define all SDO related activities
✓	D5	Use Cases in SGIP format
✓	D6	Organize Regulatory Advisors Task Force
✓	D7	Drafting high level information model, evolve
		robust object models
✓	D8	SAE Evaluation of PLCs for PEVs
✓	D9	Complete list of PEV Requirements
✓	D10	Need to overcome collaborative difficulties with
		<u>IEC</u>
✓	D11	Develop requirements for Level 3 and DC
		connector and hand off to new PEV PAP

I#	Issues, Concerns & Help Needed
12	Coordinate with PAP 15 – PLC communication. Provide
	requirements.
13	Coordinate with PAP07 – Energy Storage. Provide
	requirements

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
√	TPMO1	PAP Initiation	2009-	2009-	PAPWG	
			09	09		
\checkmark	TPMO2	PAP Charter Developed	2009-	2009-	PAPWG	
			09	09		
\checkmark	трмо3	Form Initial Team	2009-	2009-	PAPWG	
			09	09		
\checkmark	TPMO4	Develop List of	2009-	2009-	PAPWG	
		Deliverables and Tasks	10	10		
		with Assignments				
\checkmark	TPMO5	SSO Identified	2009-	2009-	PAPWG	





					10		10		
√	TPIV		Development of Requirements B PAPWG		20: 08	10-	2010- 08	PAPW	G
✓	TPIV	107	Requirements H to SSO	landof	f 20:	10-	2010- 08	PAPW	G
✓	TPM		Standards Hand PAPWG from SS		o 20: 08	10-	2010- 08	SSO	
✓	TPM		SSO Results sub to GB by PAP af completing anal	ter	10 10	10-	2010- 10	PAPW	G
0	TPM	110	PAP Complete		20: 10	10-		SGIPGI	3
S	T#	P/	AP Work Tasks	Due	Actı	ıal	Res	sp	D#
✓	T1	Ass	emble PEV Ited use cases)- /	Arindam Maitre E	1	D1
✓		Use forr	Cases in <u>SGIP</u> mat	2010- 01	2009 12		Nathan Tenney	PNL	D5
		Dat Cor Rec	nplete PEV a nmunication Juirements for very to SSOs	2010- 08	2010 08		lerry Me EnerNex	-	D9
✓		Drafting high level information model, evolve robust object models		2010- 02	2010 02	 	ZigBee S (Greg Robinso Extensib Solution Robby Simpsor	n - oel s /	D7
✓	Т3	coll	aborative iculties among	2009- 08	2009 09		SAE (Jos Salazar,		D2
✓	<u>T3A</u>	coll	ed to overcome aborative iculties with IEC	2010- 06	2010 06		Eric Sim NIST	mon,	D10
✓	T4	and doc	duce 61968 61850 uments for IEC eting	2010- 04	2010 04		TC57 W 14,17,19 Robinso	(Greg	D3
✓	T5	reg	iewing ulations with ulators	2010- 05	2010 05]	NEMA Birosch CPUC (Adam Langton	ak)	D6





√	Т6	Review related standards for barrier to PEV adoption		SAE (Efrain Ornelas)	D4
✓		_		SAE (Rich Scholer, FORD)	D8
✓	Т8	Develop requirements for Level 3 and DC connector and hand off to new PEV PAP	2010- 08	NIST (Eric Simmon)	D11

Status	Schedule	Deliverables	Resources
Aug 2010	0	0	<u></u>
Sep 2010	0	3	3





Status of PAP12: Mapping IEEE 1815 (DNP3) to IEC 61850 Objects

Updated October 8, 2010.

Α#	Current Activities and Accomplishments								
Α1	NIST has announced the award of a project to fund key								
	work tasks for PAP12 (and PAP-13).								
	VEET 1/10 040								

- A2 IEEE WG C12 met at the PSRC meeting (Sept 13) to discuss a new PAR and schedule to update IEEE 1815 to address the addition of security and editorial items
- A3 Met with the convenor of IEC WG10 to discuss ways to accelerate the development and a possible joint logo approach for the 80-2 technical specification.
- A4 Mapping group is continuing to meet and making good progress on approach and details for the mapping. Currrent focus is a detailed mapping spread sheet for 4 common data classes (of IEC 61850) out of 30. Also discussing the expected architecture and behavior of the gateways.
- A5 Met with IEEE Substations Committee C0 leadership and IEEE SA staff in mid September to discsuss an accelerated approach to developing the mapping specification as an IEEE standard.
- A6 Continuing to review and add to the draft outline for the new (DNP Technical Committee sponsored) guideline for mapping DNP3 with IEC 61850.
- A7 Continuing coordination with PAP-7 we are currently developing a guide on "how you use DNP for communications with inverters" to address current industry needs. Mapping document will address known requirements for inverter communications using IEC 61850 which will lead to the use of 61850-7-420.

S	D#	Deliverable
✓	D1	Use Case Diagrams and Data Flow Diagrams
$\overline{\mathbf{Z}}$	D2	Scope Description
✓	D3	Use Case Descriptions
\checkmark	D4	IEEE Std 1815 (DNP3)
0	D5	IEC 61850-80-2 New Work Item Proposal
0	D6	IEC 61850-80-2 Mapping Specification
0	D7	DNP3 Application Note - IEC 61850 Integration
0	D8	Changes to IEC 61580 Specifications
0	D9	Changes to DNP3 Specifications
0	D10	Example DNP XML and SCL files

I #	Issues, Concerns & Help Needed

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
✓	TPMO1	PAP Initiation	2009- 09	2009- 09	<u>SGIP</u>	
✓	TPMO2	PAP Charter Developed	2009- 11	2009- 11	<u>SGIP</u>	
√	TPMO3	Form Initial Team	2009- 11	2009- 11	<u>SGIP</u>	
✓		Develop List of Deliverables and Tasks with Assignments	2009- 12	2009- 12	<u>SGIP</u>	
✓	TPMO5	SSO Identified	2009- 11	2009- 11	<u>SGIP</u>	
✓	ТРМО6	Development of Requirements By PAPWG	_	2010- 04	<u>SGIP</u>	





·	1	TPMO7 Requiremento SSO			nts Handoff	2010- 05	2010- 05	<u>SGIP</u>	
		TPN	108	Standards I PAPWG fro	Handback to om SSO	2011- 06		SDO	D4, D6, D7
	-	TPN		SSO Results to GB by PA completing		2011- 07		<u>SGIP</u>	
		TPN	110	PAP Compl	ete	2011- 08		<u>SGIP</u>	
S	•	T#	P.	AP Work Tasks	Due	Actual	Res	p	D#
	1	T1	pro out new	ate a posed line for a v scoping ument.		Jan- 2010	Ron Farquha	arson	D2
	7			ate data v diagrams			Grant Gilchris	t	D1
		ТЗ	Create drafts of the use case description based on the topology				Grant Gilchris	t	D3
			diagrams Support IEEE PES Substations WG-C12 with IEEE P1815 - new IEEE standard for DNP			2010	Ron Farquha Lee Smi Parker <u>McCaul</u>	th,	D6
	4	T5	key are	ine what data types required SCADA	-	May- 2010	Rick Mu	ırphy	D7
			arch diag add field eled seco	ting nitecture grams to DNP to d devices, ctronic urity imeter		Apr- 2010	Rick Mu	irphy	D1
Q		T7	Loc	ate	October-		Bruce		D10





		example mappings (existing products) for DNP3 to IEC61850	2010	Muschlitz	
	T 8	Finalize outline for the IEC 61850-80- 2 Technical Report (Mapping DNP with 61850)		Grant Gilchrist / Christoph Brunner	D6
	Т9	Finalize outline for the (DNP Technical Committee sponsored) guideline for mapping DNP3 with IEC 61850.	September- 2010	Rick Murphy	D7
9	T10	Develop the New Work Item Proposal for the IEC 61850-80-2 technical specification.	October- 2010	Christoph Brunner	D5

Status	Schedule	Deliverables	Resources
January 2010	(3	3
February 2010	(<u></u>	2
March 2010	<u></u>	<u></u>	Q
April 2010	<u></u>	<u></u>	Q
May 2010	(<u></u>	3
June 2010	<u></u>	<u></u>	2
July 2010	(<u></u>	3
August 2010	©	©	Q
September 2010	<u></u>	<u>_</u>	()





Status of PAP13: Harmonization of IEEE C37.118 with IEC 61850 and Precision Time Synchronization

Updated October 8, 2010.

A# Current Activities and Accomplishments

- A1 NIST has announced the award of a project to fund key work tasks for PAP13 (and PAP-12).
- A2 The PAP-13 group is currently reviewing the full draft of the IEC 61850-90-5 technical report which has been released for comments.
- A3 IEC WG-10 meeting in Moscow on October 4 will review comments on the 90-5 document and decide on timing for balloting.
- A4 Had a successful face to face meeting in conjunction with the PSRC on September 14 with largest (to date) participation and discussion on the 90-5 document and requirements.
- A5 Working group IEEE PSRC H7/C7 IEEE PC37.238 (Power Profile for IEEE 1588) had large and successful meetings on Sept 13 to 16th and voted to put the standard to full sponsor ballot.
- A6 IEEE PC37.238 (Power Profile for IEEE 1588) is now Draft 5.5 and is in final preparation for ballot. Expecting a sponsor ballot in October 2010. No parallel balloting will occur with the IEC but the draft will be submitted to the IEC for comments.
- A7 Developing a detailed document to clarify and drive agreement on which phasor communications related requirements are (or should be) addressed by which standard (C37.118 and IEC 61850)

	D#	Deliverable
,	Uπ	Deliverable

- ✓ D1 Harmonization use cases and requirements
- ✓ D2 C37.118 Enhancement (gaps) List
- D3 IEC 61850-90-5 Mapping document
- ✓ D4 1588 Time Sync Demo
- D5 1588 Power Profile is IEEE PC37.238
- D6 Amendments to IEC 61850 documents
- D7 Amendments to IEEE C37.118 document(s)
- D8 Guideline for Harmonizing C37.118-2005 with IEC 61850

I# Issues, Concerns & Help Needed I1 NIST expects to award a contract in the next few weeks to help to move the work along.

S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
✓	TPMO1	PAP Initiation		2009- 09	<u>SGIP</u>	
√	TPMO2	PAP Charter Developed	2009-		<u>SGIP</u>	
✓	ТРМО3	Form Initial Team	2009- 11	2009- 11	<u>SGIP</u>	
✓		Develop List of Deliverables and Tasks with Assignments	2009- 12	2009- 12	<u>SGIP</u>	
✓	TPMO5	SSO Identified	2009- 11	2009- 11	<u>SGIP</u>	
√	ТРМО6	Development of Requirements By PAPWG		2010- 06	<u>SGIP</u>	
	TPM07	Requirements Handoff	2010-		SGIP	





TPMO8 Standards Handback to PAPWG from SSO TPMO9 SSO Results submitted to GB by PAP after completing analysis TPM10 PAP Complete T1 Requirements document for Synchrophasors T2 Create outline for IEC mapping document (IEC 61850-90-5) T4 IEEE PSRC H7 - Power Profile for IEEE 1588 - sponsor ballot T5 Interop demo 1588 Jan-2010 T6 Validate time synchronization requirements stamps C37.118 / IEC 61850 T7 Differences in time stamps C37.118 / IEC 61850 T8 Amendments to IEC 61850 T9 NIST Testbed for Requirements T10 Create a list of enhancements and gaps for C37.118-2005 Mark 2011 SGIP 05 Cotta Mark D1 Adamiak D1 Adamiak D1 SGIP 05 D4 Cotta Mark D1 Adamiak D1 EEE JUly- 2010 IEEE H7/C7 D5 IEEE H7/C7 D6 NIST D5 TC57/WG10 D6 TO NIST D5 TC57/WG10 D6 TO NIST D5 TO Sep- 2010 TC57/WG10 D6 TO NIST D5 T				to SSO		09			
to GB by PAP after completing analysis TPM10 PAP Complete S T# PAP Work Tasks Due Actual Resp Dff Decomplete T1 Requirements document for Synchrophasors T2 Create outline for IEC mapping document (IEC 61850-90-5) T3 Create the draft IEC mapping document (IEC 61850-80-5) T4 IEEE PSRC H7 - Power Profile for IEEE 1588 - sponsor ballot T5 Interop demo 1588 Jan-2010 T6 Validate time synchronization requirements T7 Differences in time stamps C37.118 / IEC 61850 T8 Amendments to IEC 61850 T8 Amendments to IEC 61850 T9 NIST Testbed for Sep-1588 - Requirements T10 Create a list of enhancements and gaps for C37.118-2005 T11 Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850 T8 Interop the Sep-1010 Regular May-2010 Requirements T10 Utiline for the Guideline for Harmonizing C37.118-2005 with IEC 61850 T8 Ron Farquharson T8 Ron Farquharson		TPMO8		Standards Handb		2011-		SSO	D5 -
S T# PAP Work Tasks Due Actual Resp Df document for 2009 2009 Adamiak D1 Synchrophasors T1 Requirements Sep- Oct- Mark D1 Adamiak D1 Synchrophasors T2 Create outline for IEC mapping document (IEC 61850-90-5) T3 Create the draft IEC mapping document (90-5) T4 IEEE PSRC H7 - Power Profile for IEEE 1588 - sponsor ballot T5 Interop demo 1588 Jan- 2010 2010 T6 Validate time Sep- Synchronization requirements T7 Differences in time stamps C37.118 / IEC 61850 T8 Amendments to IEC 61850 T8 Amendments to IEC 61850 T9 NIST Testbed for 1588 - 2010 Requirements T10 Create a list of enhancements and gaps for C37.118-2005 T11 Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850		TPM		to GB by PAP afte	er			SGIP	
T1 Requirements document for Synchrophasors T2 Create outline for IEC mapping document (IEC 61850-90-5) T3 Create the draft IEC mapping document (90-5) T4 IEEE PSRC H7 - Power Profile for IEEE 1588 - sponsor ballot T5 Interop demo 1588 Jan-2010 2010 T6 Validate time Synchronization requirements T7 Differences in time stamps C37.118 / IEC 61850 T8 Amendments to IEC 61850 T9 NIST Testbed for 1588 - Requirements T10 Create a list of enhancements and gaps for C37.118 - 2005 T11 Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850 T11 Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850 T11 Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850		TPM	110	PAP Complete				<u>SGIP</u>	
T1 Requirements document for Synchrophasors T2 Create outline for IEC mapping document (IEC 61850-90-5) T3 Create the draft IEC mapping document (90-5) T4 IEEE PSRC H7 - Power Profile for IEEE 1588 - sponsor ballot T5 Interop demo 1588 Jan-2010 2010 T6 Validate time Synchronization requirements T7 Differences in time stamps C37.118 / IEC 61850 T8 Amendments to IEC 61850 T9 NIST Testbed for 1588 - Requirements T10 Create a list of enhancements and gaps for C37.118-2005 T11 Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850 T11 Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850 T11 Create a Ist Of Harmonizing C37.118-2005 with IEC 61850 T11 Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850	S	T#	P.	AP Work Tasks	Due	Actual	Re	sp	D#
IEC mapping document (IEC 61850-90-5)	✓		Req doc	uirements ument for			Mark		D1
mapping document (90-5) T4 IEEE PSRC H7 - Power Profile for IEEE 1588 - sponsor ballot T5 Interop demo 1588 Jan-2010 Jan-2011 Jan-2010 Jan-2011 Jan-2011 Jan-2011 Jan-2011 Jan-2011 Jan-2011 Jan-2010 Jan-2011 Jan-2010 Jan-2011 Jan-2010 Jan-2011 Jan-2010 Jan-2011 Jan-2010 Jan-2010 Jan-2010 Jan-2011 Jan-2010 Jan-2	✓		IEC doc	mapping ument (IEC					D3
Power Profile for IEEE 1588 - sponsor ballot T5 Interop demo 1588 Jan-2010 2010 T6 Validate time Sepsynchronization requirements T7 Differences in time Stamps C37.118 / IEC 61850 T8 Amendments to IEC Jan-61850 T9 NIST Testbed for 1588 - Requirements T10 Create a list of enhancements and gaps for C37.118-2005 T11 Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850	✓		maj	oping document		,	IEC WG	610	D3
To Validate time sep-synchronization requirements To Differences in time stamps C37.118 / IEC 61850 To NIST Testbed for 61850 To NIST Testbed for 1588 - Requirements To Create a list of enhancements and gaps for C37.118 - 2005 To Could line for the Guideline for Harmonizing C37.118-2005 with IEC 61850 To NIST Testbed for Sep-Sep-Sep-Sep-Sep-Sep-Sep-Sep-Sep-Sep-	Ø		Pow IEEE	ver Profile for E 1588 - sponsor			IEEE H	7/C7	D5
synchronization requirements T7 Differences in time stamps C37.118 / 2010 IEC 61850 T8 Amendments to IEC Jan-2011 T057/WG10 T057	✓	T5	Inte	rop demo 1588			IEEE H	7/C7	D4
stamps C37.118 / IEC 61850 T8 Amendments to IEC 61850 T9 NIST Testbed for 1588 - 2010 Requirements T10 Create a list of enhancements and gaps for C37.118-2005 T11 Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850 TC57/WG10 TC57/WG10 TC57/WG10 D6 NIST D5 NIST D5 NAY- 2010 Adamiak D7 Ron Farquharson D8 Farquharson	0		syn	chronization	•		NIST		D5
61850 2011 T9 NIST Testbed for Sep- 2010 Requirements May- May- Mark D2 2010 Rephancements and gaps for C37.118- 2005 T11 Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850 NIST D5 NIST D5 NIST D5 Rep- 2010 Ray- May- Mark D2 2010 Adamiak D7 Ron Farquharson Farquharson	9		star	nps C37.118 /				-	
1588 - Requirements T10 Create a list of enhancements and gaps for C37.118-2005 T11 Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850 D4 T1588 - Requirements 2010 May- May- Mark D2 Adamiak D7 May- May- May- May- May- May- May- May-	0						TC57/V	VG10	D6
enhancements and gaps for C37.118- 2005 T11 Outline for the Guideline for Harmonizing C37.118-2005 with IEC 61850 Adamiak D7 Ron Farquharson Farquharson	0	Т9	158	8 -			NIST		D5
Guideline for 2010 Farquharson Harmonizing C37.118-2005 with IEC 61850	✓		enh gap	ancements and s for C37.118-		•		ak	D2, D7
Deliverables Resources	0	T11	Gui Har C37	deline for monizing .118-2005 with				arson	D8
				Deliverables			Resour	ces	

Status Schedule

SGIP NIST Smart Grid Co.	llaboration Site	NIS	Т
January 2010	2	2	②
February 2010	O	(3
March 2010	(a	3
April 2010	©	(2)	②
May 2010	2	(2)	3
June 2010	©	©	②
July 2010	2	a	@
August 2010	0	<u></u>	Q
September 2010	<u> </u>	2	&





Status of PAP14: Transmission and Distribution Power Systems Model Mapping (11.2.1)

Updated October 1, 2010.

A#	Current Activities and Accomplishments
А3	Currently rescoping to focus on mainly Transmission
	topics
Α4	Use Cases for Advanced Distribution will be tied in to
	Transmission touch points

- A6 Reviewing prior work for most valuable use cases to advance modeling
- A8 Developing a priority process to narrow and define key use cases for this PAP

S	D#	Deliverable
\checkmark	D1	Report on the impact of C37.239 on CIM and IEC
		<u>61850</u>
\checkmark	D2	A master list of use cases (task 6)
0	D3	New and refined use cases (task 7)
0	D4	<u>Updates of models (task 7)</u>

۱#	Issues, Concerns & Help Needed
10	Now working on a priority process to effectively rescope PAP
11	Work requires specialized expertise from participants within the key SDOs IEEE PSRC and IEC TC 57
13	Need focussed work on the next generation T&D operations Architecture Perspective
14	Need expert help in developing identified use cases in sufficient detail to contribute to standards development
15	Need to apply expert help in harmonization, integration and unification of key standards

S	T#	PMO PAP Milestone	s	Du	e	Actua	ıl	Resp	D#
✓	TPMO1	PAP Initiation		200 09	9-	2009- 09		<u>SGIP</u>	
✓	TPMO2	PAP Charter Develope	d	200: 09		2009- 09		<u>SGIP</u>	
✓	ТРМО3	Form Initial Team		200 09	9-	2010- 03		<u>SGIP</u>	
✓		Develop List of Deliverables and Tasks with Assignments		201 03	0-	2010- 06		<u>SGIP</u>	
✓	TPMO5	SSO Identified		201 01	0-	2010- 01		WG19	
		Development of Requirements By PAPWG		201 08	0-				
		Requirements Handoff to SSO	f	201 09	0-				
		Standards Handback to PAPWG from SSO	כ	201 11	0-				
		SSO Results submitted to GB by PAP after completing analysis							
	TPM10	PAP Complete							
_	T#	PAP Work Tasks	C	ue	Α	ctual			D#
✓		tigating impact of PC37.239		ec- 009		ay)10	Н	ughes	D1
✓		e process of creating to identify Use Cases		oril- 010		ay)10	Н	ughes	D2
✓		ting initial use case – T&D DEWG		p- 909		arch-)10	Н	ughes	D2
✓	T4 Creat	ting use case master		ec- 009		ly-)10	V	VG 19	D2
0	T5 Refin	ing use cases	Ju	n-			W	VG 19	D3





		2010		
3	Reviewing and assigning use cases – WG19 Smart Grid TF to review and assign to other TF's	May- 2010	D	3
0	Develop contributions to communication objects and system models	Dec- 2010	D	4

Status	Schedule	Deliverables	Resources
January 2010	©	3	©
February 2010	<u> </u>	<u></u>	<u>0</u>
March 2010	Q	a	Q
April 2010	Q	<u></u>	Q
May 2010	()	<u></u>	Q
June 2010	<u></u>	<u></u>	<u>0</u>
July 2010	a	<u>_</u>	©
Aug 2010	Q	<u></u>	Q





Status of PAP15: Harmonize Power Line Carrier Standards for Appliance Communications in the Home

S D#

Updated Oct 12, 2010.

A# Current Activities and Accomplishments

- A5 Harmonization of G.hn and P1901 ISP completed. G.hn approved as G.9972 and P1901 ISP became part of P1901. Developing report.
- A6 Stakeholder presentations from AHAM and OpenSG requirements sources.
- A7 Developing appliance centered NB-PLC requirements with input from AHAM and OpenSG / Communications.

✓ D1 Final Task 1 Deliverable and supporting documents

- ✓ D2 Final Task 2 Deliverable
- ✓ D3 Intermediate reports available NB coexistence mechanisam

Deliverable

- ✓ D4 Harmonized BB Coexistence standards, P1901, G.9972, standards available from IEEE, ITU-T
- D5 Announcement of joint IEEE ITU-T work on NB standard.doc
- D6 Development of output report on Broadband Coexistence
- D7 Requirements for Joint NB PLC standard
- D8 Interoperable Joint NB PLC Standard

I#	Issues, Concerns & Help Needed
I4 Ti	me to review NB-PLC requirements is short.

ļ	D8 Interoperable Joint NB PLC Standard									
	S	T#	PM	O PAP Miles	tones		Due	Actua	Resp	D#
	✓	TPMO1	PAP Initia		2009- 10	2009- 10	<u>SGIP</u>	All		
	✓	ТРМО2	PAP Char	ter Develop	ed			2009- 11	SGIP	All
	✓	ТРМО3	Form Init	ial Team			2010- 01	1020- 01	SGIP	All
	✓	ТРМО4	•	List of Delive h Assignmer		d		2010- 01	<u>SGIP</u>	All
	✓	ТРМО5		h SDOs to ha			2010- 06	2010- 06	IEEE,ITU- T	All
	✓	ТРМО6		DOs for NB ice standard				2010- 08	<u>SGIP</u>	
	0	ТРМО7		nent of Requ C By PAPWO		:S	2010- 11		<u>SGIP</u>	
	0	ТРМО8	Requirem Handoff t	nents for NB to SDO	PLC		2010- 11		<u>SGIP</u>	
	0	ТРМО9	Standard from SDC	s Handback)	to PAPW	'G	2011- ??		IEEE,ITU- T	
	0	TPM10		lts submitte completing		Эγ				
	9	TPM11	PAP Com	plete						
	S		P Work Fasks	Due	Actual		Resp	·	D#	
	T1 Create a list of existing PLC technologies and revise them according to			March 23rd, 2010	March 23rd, 2010		bgroup exister	ice d	1-Final eliverable osted	





Ī		l				
		home appliances requirements				
	✓		23rd, 2010		coexistence	D2-Final deliverable posted
	✓	coexistence	IEEE and ITU finalize the alignment of the BB- PLC coexistence specs		on coexistence	D4-Work completed, BB coexitence standards approved by ITU-t and IEEE in June 2010.
	✓	Develop Narrow Band (NB) Coexistence mechiism		27, 2010	NB Task Force of Subgroup on coexistence	D3-Report delivered,
	3	Select an SDO to develop NB Coexistence standard	June 2010		coexistence	Voting postphoned, July 27, await joint SDO proposal, D5- IEEE, ITU-T jiont announcement delivered.
	0	•			PAP-15 - Requirements	D7
	0	IEEE and ITU- T to jointly	TBD			D8-standard specification
	her	develop a NB PLC standard	Deliverat			

Status	Schedule	Deliverables	Resources
January 2010	2	a	Q
February 2010	<u>©</u>	<u> </u>	0
March 2010	2	✓	2

SGiP	NIST Smart Grid Col	laboration Site		NIST
April 2010		<u> </u>	✓	2
May 2010		©	a	2
June 2010		<u>©</u>	✓	0
July 2010		(<u></u>	2
August 2010		2	2	0
September 2010		<u> </u>	a	2





Status of PAP16: Wind Plant Communications

Updated October 8, 2010.

A#		S	D#	Deliverable
	Accomplishments	\checkmark	D1	Requirements related to wind power plant communications from
A1	Requirements mapped to E61400-25			use cases
A2	Gaps identified, identifying	0	D2	Requirements mapping and gaps existing between 61400-25
	recommendations			standard and Task 1 use cases
A3	Hosted Cross-PAP session at Fall SGIP	2	D3	Best practices on the application of 61400-25 in the US
	Meeting	0	D4	Specific recommendations to the IEC TC 88 working group
A4	Draft letter of requirements out for			
	review			

۱#	Issues, Concerns & Help Needed

						i
S	T#	PMO PAP Milestones	Due	Actual	Resp	D#
7	TPMO1	PAP Initiation	2010-01	2010-01	SGIP	
	TPMO2	PAP Charter Developed	2010-02		<u>SGIP</u>	
✓		Form Initial Team	2010-03	2010-03	<u>SGIP</u>	
✓		Develop List of Deliverables and Tasks with Assignments	2010-04	2010-04	SGIP	D1
✓	TPMO5	SSO Identified	2010-02	2010-08-05	PAP16wg	D1
0		Development of Requirements By PAP 16 WG			PAP16wg	D2,D3
0		Requirements Handoff to SSO	2010-10		PAP16wg	D4
2		Standards Handback to PAPWG from SSO	2011-07		SSO	
		SSO Results submitted to GB by PAP after completing analysis	2011-08		PAP16wg	
0	TPM10	PAP	2011-11		PAP16wg	





		Complete				
S	T#	PAP Work Tasks	Due	Actual	Resp	D#
✓	T1	Develop requirements related to wind power plant communications from use cases	June-2010	June- 2010	UWIG et al	D1
✓	T2A	Map the requirements of task 1 into 61400-25.	July-2010		PAP 16/61400-25 User Group	D2
0	T2B	Identify Gaps and deveop recommendatios.	September 2010		PAP 16	D2
3	ТЗ	Develop a best practices list for the application of 61400-25. Identify opportunities to harmonize the CIM and 61400-25	September- 2010		UWIG/All	D3
2	T4	Provide specific recommendations to IEC TC 88 through USTAG for 61400-25 and follow-up	November- 2010		All/UWIG/61400- 25 User Group	D4
3	T5	Coordinate with PAP 7 in extending ES-DER standards to transmission level	September -2010		PAP 16 / PAP 7	D4

Status	Schedule	Deliverables	Resources
August 2010	2	2	Q
September 2010	٥	a	0





Status of PAP17: Facility Smart Grid Information Standard

Updated October 11, 2010.

A#	Current Activities and Accomplishments
Α1	SGIPGB established PAP17
Α2	ASHRAE has finalized their committee 8/9/2010,
	<u>VotingMembers</u>
А3	ASHRAE SPC held first meeting 8/30-3/31, created five
	sub groups to tackle important issues, <u>ASHRAE</u>
	<u>Information</u>
Α4	PAP17WG had their kickoff Webmeeting on 9/8/2010
Α5	PAP17WG had their kickoff F2F meeting on 9/16/2010
Α6	The PAP17WG evaluated the cross-PAP dependency
	matrix and tasked members to evaluate the
	dependencies and report back to the group
Α7	A Use Case team was formed to evaluate the
	submission by the EIS Alliance (see Deliverable 1)
Α8	The PAP17WG completed its evaluation of the EIS
	Alliance use cases for consideration in PAP17WG work
	on 10/06/2010.

S	D#	Deliverables
0	D1	Use Cases and Requirements
2	D2	Information Models
2	D3	<u>Draft Standard</u>
0	D4	Published Standard

	l#	Issues, Concerns & Help Needed
	11	Need to sort out sharing of information between
		ASHRAE and PAP17WG -resolved
	12	Need to sort out contributor intellectual property
		concerns w.r.t. use cases-resolved
	13	Difference between ASHRAE voting members and guest
		participants and information availability-resolved
	14	Use Case selection may end up being Use Case creation
		which will take a bit more time; 9/20 update: EIS Alliance
١		submitted use cases to seed the workresolved

S	T#	PMO PAP	Due	Actual	Resp	D#
		Milestones				
✓	TPMO1	PAP Initiation		2010-	<u>SGIP</u>	
			07	07		
✓	TPMO2	PAP Charter		2010-	<u>SGIP</u>	
		Developed	07	07		
✓	трмоз	Form Initial			<u>SGIP</u>	
		Team	09	09		
✓	TPMO4	•	2010-	2010-	<u>SGIP</u>	
		Deliverables	07	07		
		and Tasks with				
		Assignments				
✓	TPMO5	SSO Identified			PAP17WG	
			07	07		
0	трмо6	Development	2010-		PAP17WG	D1
		of	10			
		Requirements				
_		By PAPWG				
©	трмо7	Requirements	2010-		PAP17WG	D1
		Handoff to SSO	10			
		Standards	2011-		SSO	D3
finalized		Handback to	06			
		PAPWG from				
		SSO				
		SSO Results	2011-		PAP17WG	D4
finalized		submitted to	07			





			GB by PAP after completing analysis								
	TPN	И10	PAP Complete	20 07	011- 7			PA	AP17	'WG	
S	T#	Р	AP Work Tasks		Due	е	Actu	al	Re	sp	D#
V		Stan Com exec	m ASHRAE Idard Project Inmittee (SPC) to Cute the tasks In this PAP		2010 07	-	2010 07)-	ASH	RAE	D1
0		requ exis	emble data uirements from ting use cases renced above		2010 10				ASH	RAE	D2
Date not finalized	Т3	of d Grid	ate public reviev raft Facility Sma I Information Idard		201: 01				ASH	RAE	D3
Date not finalized	T4	Faci	lication of final lity Smart Grid rmation Standar	d	201: 06				ASH	RAE	D4

Status	Schedule	Deliverables	Resources
August 2010	Q	<u></u>	٥
September 2010	9	۵	٥
October 2010	0	<u> </u>	Ö